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1 Retrieving and organizing web pages by "information unit"

Wen-Syan Li, K. Selçuk Candan, Quoc Vu, Divyakant Agrawal

April 2001 **Proceedings of the tenth international conference on World Wide Web**

Full text available: pdf(1.97 MB) Additional Information: full citation, references, citings, index terms

Keywords: link structures, progressive processing, query relaxation, web proximity search

2 Information extraction: Is question answering an acquired skill?

Ganesh Ramakrishnan, Soumen Chakrabarti, Deepa Paranjpe, Pushpak Bhattacharya

May 2004 **Proceedings of the 13th international conference on World Wide Web**

Full text available: pdf(260.13 KB) Additional Information: full citation, abstract, references, index terms

We present a question answering (QA) system which learns how to detect and rank answer passages by analyzing questions and their answers (QA pairs) provided as training data. We built our system in only a few person-months using off-the-shelf components: a part-of-speech tagger, a shallow parser, a lexical network, and a few well-known supervised learning algorithms. In contrast, many of the top TREC QA systems are large group efforts, using customized ontologies, question classifiers, and highl ...

Keywords: machine learning, question answering

3 Database theory, technology and applications (DTTA): Simplified access to structured databases by adapting keyword search and database selection

Mohammad Hassan, Reda Alhajj, Mick J. Ridley, Ken Barker

March 2004 **Proceedings of the 2004 ACM symposium on Applied computing**

Full text available: pdf(219.19 KB) Additional Information: full citation, abstract, references, index terms

This paper presents a tool that enables non-technical (naive) end-users to use free-form queries in exploring distributed relational databases with simple and direct technique, in a fashion similar to using search engines to search text files on the web. This allows web designers and database developers to publish their databases for web browsers exploring. The proposed approach can be used for both Internet and Intranet application areas. Our approach depends on identifying first databases that ...

Keywords: database selection, information retrieval, keyword search, relational databases

4 Database session 6: XML: Efficient ordering for XML data
Damien K. Fisher, Franky Lam, William M. Shui, Raymond K. Wong
November 2003 **Proceedings of the twelfth international conference on Information and knowledge management**
Full text available: pdf(127.44 KB) Additional Information: full citation, abstract, references, index terms

With the increasing popularity of XML, there arises the need for managing and querying information in this form. Several query languages, such as XQuery, have been proposed which return their results in document order. However, most recent efforts focused on query optimization have disregarded order. This paper presents a simple yet elegant method to maintain document ordering for XML data. Analysis of our method shows that it is indeed efficient and scalable, even for changing data.

Keywords: XML, dynamic, order maintenance, semi-structured data

5 Intelligent web information access: Answering imprecise database queries: a novel approach
Ullas Nambiar, Subbarao Kambhampati
November 2003 **Proceedings of the 5th ACM international workshop on Web information and data management**
Full text available: pdf(385.91 KB) Additional Information: full citation, abstract, references, citings, index terms

A growing number of databases especially those published on the Web are becoming available to external users. Users of these databases are provided simple form-based query interfaces that hide the underlying schematic details. Constrained by the expressiveness of the query interface users often have difficulty in articulating a precise query over the database. Supporting *imprecise queries* over such systems would allow users to quickly find relevant answers without iteratively refining th ...

Keywords: imprecise queries, query, relational database, similarity

6 XML and text: XRANK: ranked keyword search over XML documents
Lin Guo, Feng Shao, Chavdar Botev, Jayavel Shanmugasundaram
June 2003 **Proceedings of the 2003 ACM SIGMOD international conference on Management of data**
Full text available: pdf(265.38 KB) Additional Information: full citation, abstract, references, citings, index terms

We consider the problem of efficiently producing ranked results for keyword search queries over hyperlinked XML documents. Evaluating keyword search queries over hierarchical XML documents, as opposed to (conceptually) flat HTML documents, introduces many new challenges. First, XML keyword search queries do not always return entire documents, but can return deeply nested XML elements that contain the desired keywords. Second, the nested structure of XML implies that the notion of ranking is no l ...

7 Link-based ranking 1: Scaling personalized web search
Glen Jeh, Jennifer Widom
May 2003 **Proceedings of the twelfth international conference on World Wide Web**
Full text available: pdf(158.18 KB) Additional Information: full citation, abstract, references, citings, index

terms

Recent web search techniques augment traditional text matching with a global notion of "importance" based on the linkage structure of the web, such as in Google's PageRank algorithm. For more refined searches, this global notion of importance can be specialized to create personalized views of importance--for example, importance scores can be biased according to a user-specified set of initially-interesting pages. Computing and storing all possible personalized views in advance is impractical, as ...

Keywords: PageRank, web search

8 A multi-paradigm querying approach for a generic multimedia database management system

Ji-Rong Wen, Qing Li, Wei-Ying Ma, Hong-Jiang Zhang

March 2003 **ACM SIGMOD Record**, Volume 32 Issue 1

Full text available: pdf(524.08 KB) Additional Information: full citation, abstract, references, citings

To truly meet the requirements of multimedia database (MMDB) management, an integrated framework for modeling, managing and retrieving various kinds of media data in a uniform way is necessary. MediaLand is an experimental MMDB platform being developed at *Microsoft Research Asia* for users with different levels of experiences and expertise to manage and search multimedia repositories easily, efficiently, and cooperatively. Key features of MediaLand include a uniform data model for describi ...

Keywords: media independence, multi-paradigm querying, multimedia database management, uniform data modeling

9 Web search 1: Searching web databases by structuring keyword-based queries

Pável Calado, Altigran S. da Silva, Rodrigo C. Vieira, Alberto H. F. Laender, Berthier A. Ribeiro-Neto

November 2002 **Proceedings of the eleventh international conference on Information and knowledge management**

Full text available: pdf(204.22 KB) Additional Information: full citation, abstract, references, citings, index terms

On-line information services have become widespread in the Web nowadays. However, Web users are non-specialized and have a great variety of interests. Thus, interfaces for Web databases must be simple and uniform. In this paper we present an approach, based on Bayesian networks, for querying Web databases using keywords only. According to this approach, the user inputs a query through a simple search-box interface. From the input query, one or more plausible structured queries are derived and su ...

Keywords: query structuring, structured queries, web databases

10 Semistructured Data: Structural proximity searching for large collections of semi-structured data

Michael Barg, Raymond K. Wong

October 2001 **Proceedings of the tenth international conference on Information and knowledge management**

Full text available: pdf(1.92 MB) Additional Information: full citation, abstract, references, citings, index terms

The richness of the XML data format allows data to be structured in a way which precisely captures the semantics required by the author. It is the structure of the data, however,

which forms the basis of all XML query languages. Without at least some notion of the structure, a user cannot meaningfully query the data. This problem is compounded when one considers that heterogeneous data adhering to different schema are likely to exist in the database(s) being queried. This paper proposes a soluti ...

11 External memory algorithms and data structures: dealing with **massive data**
Jeffrey Scott Vitter
June 2001 **ACM Computing Surveys (CSUR)**, Volume 33 Issue 2

Full text available: pdf(828.46 KB) Additional Information: full citation, abstract, references, citings, index terms

Data sets in large applications are often too massive to fit completely inside the computers internal memory. The resulting input/output communication (or I/O) between fast internal memory and slower external memory (such as disks) can be a major performance bottleneck. In this article we survey the state of the art in the design and analysis of external memory (or EM) algorithms and data structures, where the goal is to exploit locality in order to reduce the I/O costs. We consider a varie ...

Keywords: B-tree, I/O, batched, block, disk, dynamic, extendible hashing, external memory, hierarchical memory, multidimensional access methods, multilevel memory, online, out-of-core, secondary storage, sorting

12 Expressive retrieval from XML documents
Taurai Tapiwa Chinenyanga, Nicholas Kushmerick
September 2001 **Proceedings of the 24th annual international ACM SIGIR conference on Research and development in information retrieval**

Full text available: pdf(400.63 KB) Additional Information: full citation, abstract, references, citings, index terms

The emergence of XML as a standard interchange format for structured documents/data has given rise to many XML query language proposals. However, some of these languages do not support information retrieval-style ranked queries based on textual similarity. There have been several extensions to these query languages to support keyword search, but the resulting query languages cannot express queries such as``find books and CDs with similar titles". Either these extensions u ...

13 Component selection and matching for IP-based design
G. Martin, R. Seepold, T. Zhang, L. Benini, G. De Micheli
March 2001 **Proceedings of the conference on Design, automation and test in Europe**

Full text available: pdf(170.22 KB) Additional Information: full citation, references, citings, index terms

14 Integrating content search with structure analysis for hypermedia retrieval and management
Wen-Syan Li, K. Selçuk Candan
December 1999 **ACM Computing Surveys (CSUR)**

Full text available: pdf(25.42 KB) Additional Information: full citation, references, index terms

Keywords: link analysis, organization, topic distillation

15 Research track papers: Mining the space of graph properties

Glen Jeh, Jennifer Widom
August 2004 **Proceedings of the 2004 ACM SIGKDD international conference on Knowledge discovery and data mining**
Full text available: pdf(255.01 KB) Additional Information: full citation, abstract, references, index terms

Existing data mining algorithms on graphs look for nodes satisfying specific properties, such as specific notions of structural similarity or specific measures of link-based importance. While such analyses for predetermined properties can be effective in well-understood domains, sometimes identifying an appropriate property for analysis can be a challenge, and focusing on a single property may neglect other important aspects of the data. In this paper, we develop a foundation for mining the prop ...

Keywords: data mining, graph mining

16 Posters: Providing ranked relevant results for web database queries
Ullas Nambiar, Subbarao Kambhampati
May 2004 **Proceedings of the 13th international World Wide Web conference on Alternate track papers & posters**
Full text available: pdf(45.19 KB) Additional Information: full citation, abstract, references, citings, index terms

Often Web database users experience difficulty in articulating their needs using a precise query. Providing ranked set of possible answers would benefit such users. We propose to provide ranked answers to user queries by identifying a set of queries from the query log whose answers are relevant to the given user query. The relevance detection is done using a domain and end-user independent content similarity estimation technique.

Keywords: content similarity, query suggestion, web-enabled database

17 Paper session 5: approximate and ranked query processing: Mining approximate functional dependencies and concept similarities to answer imprecise queries
Ullas Nambiar, Subbarao Kambhampati
June 2004 **Proceedings of the 7th International Workshop on the Web and Databases: colocated with ACM SIGMOD/PODS 2004**
Full text available: pdf(195.43 KB) Additional Information: full citation, abstract, references

Current approaches for answering queries with imprecise constraints require users to provide distance metrics and importance measures for attributes of interest. In this paper we focus on providing a domain and end-user independent solution for supporting *imprecise queries* over Web databases without affecting the underlying database. We propose a query processing framework that integrates techniques from IR and database research to efficiently determine answers for imprecise queries. We m ...

Keywords: approximate functional dependencies, imprecise queries, tuple similarity

18 Research sessions: text and DB: On the integration of structure indexes and inverted lists
Raghav Kaushik, Rajasekar Krishnamurthy, Jeffrey F. Naughton, Raghu Ramakrishnan
June 2004 **Proceedings of the 2004 ACM SIGMOD international conference on Management of data**
Full text available: pdf(228.17 KB) Additional Information: full citation, abstract, references, citings

Several methods have been proposed to evaluate queries over a native XML DBMS, where the queries specify both path and keyword constraints. These broadly consist of graph

traversal approaches, optimized with auxiliary structures known as structure indexes; and approaches based on information-retrieval style inverted lists. We propose a strategy that combines the two forms of auxiliary indexes, and a query evaluation algorithm for branching path expressions based on this strategy. Our technique i ...

Results 1 - 18 of 18

Web Results **11** - **20** of about **72** for **+~strength +~neighbors +~counting +~l**

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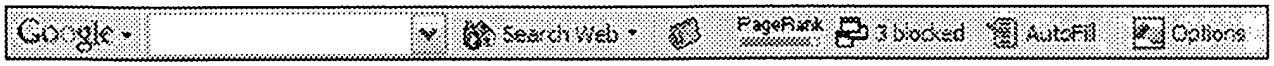

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